FREE TO CHOOSE INNOVATIONS

XORO®

HRS 8560

User Manual

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English

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English

The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1)THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED. INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

User Manual

1. All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. All operating and use instructions should be followed.

Satellite dish

XORO HRS8560 is designed for the connection to a regular satellite dish.

- Please have the satellite dish installed by a technician to insure a perfect function and avoid damage.
- The Satellite dish will have to be grounded.
- If the dish fails to take the precise position, it will cause signal disturbance or other problems. Please have the antenna measured by a technician.
- Please employ high quality antenna cable.
- If the LNB is too old, it might not be suitable for receiving current satellite program. Please choose a LNB which fits all programs. (These LNBs bear often the label “Digital” or “Universal”).

Please get informed of the correct dish position and program list from the web page of the satellite operators or from specialized stores.

Power Supply

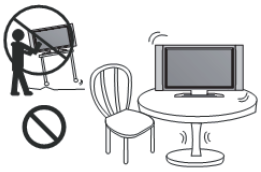
1. Never touch the plug with wet hands.
2. Do not stand vases etc. on the appliance. Water could seep into the appliance.
3. Keep the appliance away from rain and any moisture.
4. If you want to pull the plug out of the plug socket, always pull directly on the plug. Never pull on the cable as it could tear.
5. Make sure that the power cable is not bent, caught or run over and that it does not come into contact with heat sources.
6. Make sure that the power cable is not wound around the device while in operation.
7. Never place the machine on the power cable while it is being operated.
8. Only use extension cables that are designed for the power consumption level of the machine.
9. Only operate the machine if the electrical voltage stated on the type plate beneath the machine agrees with the voltage on your plug socket. The wrong voltage can destroy the machine.
10. Do not open the appliance.
11. Pull out the mains plug if the appliance is not to be used over a longer period of time.
12. Take care that nobody can trip over the power supply cable.

USB port

1. Due to legal requirements of CE-conformity, the customer is asked to only connect USB-Sticks to the USB port.

Please refer to further details on USB on the page 15.

Position



1. Do not connect accessories on the player which are not defined by the manufacture.
2. Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
3. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
4. The device is able to show a still image on the TV screen or monitor over an unlimited period of time. This can cause damage to the screen. It is therefore advisable to activate the screen saver. Or switch the player off, if the device is not in use.
5. Do not uses the device permanent in the 4:3 mode. This can cause damage to the TV screen.
6. Do not increase the volume when the player is just playing very quiet sections. This cold damage the speaker if very loud passages starts all of a sudden after the quiet section.
7. Switch the player off by the Off/On switch if it is not going to used for a longer period of time.
8. Disconnect the main plug during thunderstorms.
9. Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered.
10. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.
11. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
12. Protect the device against weather influences, moistures and high temperature.
13. Never spill liquid of any kind on the product.
14. Do not expose the device and the remote control to direct sunlight.

Operation

1. Reception of digital broadcast in SD or HD by satellite.
2. Recording DVB-S on USB storage and play back the recorded files from USB storage.
3. Time Shift function with a connected USB storage
4. Playback of supported video, audio and picture files from USB storage.

The device is designed for private household.

Dolby

Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

Defect

1. Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Please turn to qualified service personnel.
2. Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
   a. When the power-supply cord or plug is damaged.
   b. If liquid has been spilled, or objects have fallen into the product.
   c. If the product has been exposed to rain or water.
   d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
   e. If the product has been dropped or damaged in any way, and
3. When the product exhibits a distinct change in performance this indicates a need for service.
4. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
5. Nicotine can damage the electronic components. In case of service regarding too much nicotine, than the warranty/guarantee expired.

Contact of the XORO customer service:

Phone: +49 41 61 800 24 24 (Mo-Fr, 11.00am - 5.00pm)
E-Mail:support@ersservice.de
Fax: +49 41 61 800 24 61

ERS GmbH Elektronik Repair Service
Weidegrund 3
21614 Buxtehude
Germany

It is our pleasure to help you in case of questions on utilisation or functional problems . Please also take note of the trouble shooting at the end of this manual.

Notes

Recycling Information

Recycling of electronic devices

This product is designed and manufactured with high quality materials and components which can be recycled and reused.
This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.
Please, dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic product. Please, help us to conserve the environment we live in!

Recycling of paper and carton

The material recycling symbol on the carton and user manual denotes that they are recyclable. Dispose them not with the normal household waste.

Recycling of plastic parts

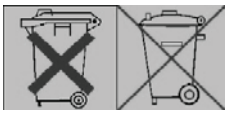
The material recycling symbol on the plastic parts denotes that they are recyclable. Dispose them not with the normal household waste.

Green Dot

The “Grüne Punkt” denotes that the MAS Elektronik AG pays a duty to the ”Society for Waste Prevention and Secondary Resource Generation”.

Batteries

Every consumer is legally obliged to dispose the used batteries at the local collection centres or stores for an environmentally sound disposal. Please do not dispose the used batteries in house hold waste.



English

Notes

Accessoires

Please make sure that the following accessories are included:

- HRS 8560
- Remote Control
- User Manual

Notes:

- Please employ only the original accessories.
- Shall any item be damaged or missing, please contact directly the shop where you bought this product.

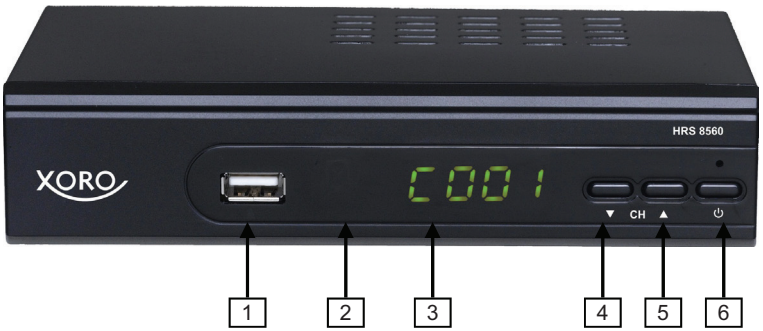
English

Features

- High Definition DVB-S2 Receiver
- HDMI Port
- SCART output
- Electronic program guide (EPG) and videotext
- USB 2.0 High Speed connection
- PVR Ready - records DVB-S broadcast on USB storage
- Time Shift Function with a connected USB storage
- Playback of video, audio and picture files Digital audio out by Coaxial

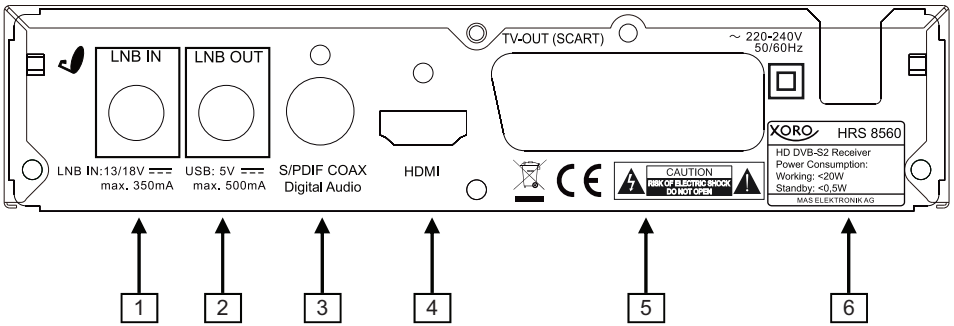
CONTROL ELEMENTS

Front Panel



1. USB 2.0 port
2. IR receiver
3. LED display: showing the program number with the power on
4. To previous channel (CH-)
5. To next channel (CH+)
6. Power button

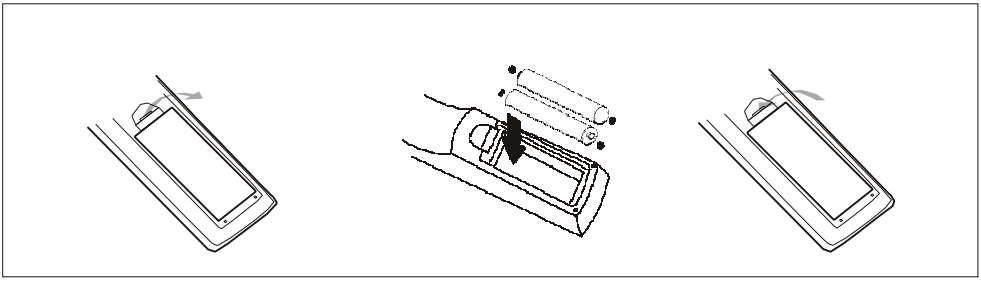
Rear Panel



1. Aerial Input (LNB IN)
2. Aerial Output (LNB OUT)
3. Digital audio output (S/PDIF coaxial)
4. HDMI output
5. SCART output
6. Power cord

Insert batteries and operation radius

- Insert the battery (type AAA) into the receptacle of the remote.
- Close the battery cover



- For the best results, aim the remote towards at the player. Stay within 5 meter and angles of 60 degrees or less.
- Remove battery during storage or when you are not using the device for a long time.

Notes:

1. Remove and exchange old batteries. Leaking out battery acid can damage your health and the remote control.
2. Clean leaking out battery acid with a cloth
3. In case of skin contact immediately wash the affected area.
4. Please contact a medic after swallowing the battery or battery acid immediately
5. Seek medical advice if battery acid has been swallowed. In case of contact with your eyes wash out the eyes and seek medical advice.

Buttons

Buttons of the remote control

Power (on/off)
SUB-T (subtitle)
AUDIO (change sound track)
⊠ (MUTE, sound on/off)
EPG
GOTO (start play back from a certain point defined by time)
PAGE+/-(page up/down)
TTX (videotext)
RPT (Repeat)

Menu (to access main menu)
CH+/CH-(change channel, select menu up/down)
EXIT (quit menu, to the higher menu)
VOL+/VOL-(change volume, select menu right/left)
FAV (to access favorite list)
TV/RADIO (switch between TV and Radio)
OK (confirming selection, to access program list)

Numerical buttons (0-9)
⮌ (RECALL, to previous program or higher directory)
i (INFO, to access information page)

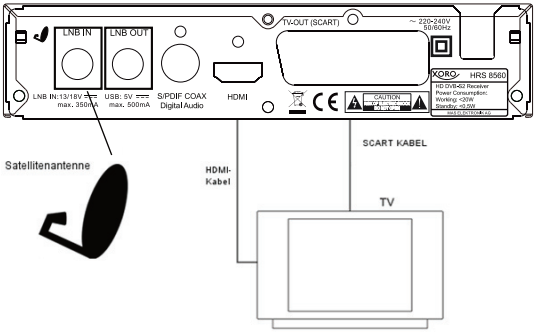
◀◀ ▶▶ (fast rewind/fast forward)
I◀◀ ▶▶I (previous/next file)
▶ (start play back)
|| (Pause, start Time-Shift)
■ (Stopp playback, access Media player)
● (recording)
PVR (display recorded files, **red** button)
V-FORMAT (change HDMI solution , **green** button)
ASPECT (change aspect ratio, **yellow** button)
TIMER (display timer list, **blue** button)
Notes:
Some buttons function only as described above in the corresponding mode. For example: the GOTO button and the Repeat button function only in media player mode. Please take note of further descriptions in the manual and the notice on the screen.

English

Connecting to the TV

General information

- Assure that the device is switched off and unplugged.
- Read the manual of your TV and attend to the safety instructions.
- Connect the power cable at last with a electronic socket.



The HRS8560 could be connected either through HDMI or scart to TV. Please connect the receiver through HDMI if possible. The TV could only display the signal in high definition quality through HDMI out put.

HDMI:

Connect the HDMI output of HRS8560 to a free HDMI input of the TV. Please read the manual of your TV to select the HDMI input. Generally the TV does not switch automatically to the HDMI input upon connection. A HDMI cable is necessary for this connection. It is not included in the delivery of the receiver.

SCART:

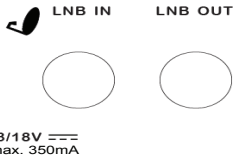
Connect the TV SCART output of HRS8560 to a free SCART input of the TV. Please read the manual of your TV to select the SCART input. Generally the TV does not switch automatically to the SCART input upon connection. A SCART cable is necessary for this connection. It is not included in the delivery of the receiver.

Notes:

- The HRS8560 is designed for TV with 16:9 as aspect ratio. Please refer to the page 32 how to set a TV with aspect ratio 4:3 to fit the receiver. It is also described there how to change the HDMI resolution and signal type under the SCART connection.
- Please employ high quality cables. Low quality cables (especially up 1,5 m length) might cause picture failure or make an image transmission impossible. Poorly shielded cables might result in “double image” or disturbing sound.

Connection

Connection to satellite dish



Connect the cable of your satellite dish to the Antenna input LNB IN of the HRS8560.

Notes:

- Screw the so-called F plug together with the LNB IN.
- Please make sure to avoid short circuit at the F plug.
- Employ only high quality antenna cables . Low quality antenna cables might cause disturbance

You can connect further satellite receivers onto the LNB out. We recommend it only to technically experienced users, for the receivers connected this way affect each other and do not share the complete program accessable to both receives.

Connection to a Hi- Fi system

A coaxial cable is necessary for the S/PDIF signals for the digital connection to a Hi-Fi system. This cable is not included in the delivery of this receiver. Connect the S/PDIF out put with the S/PDIF input of your Hi– Fi system. Please refer to the manual of the Hi-Fi system to select the audio input.
Notes:
The HRS8560 could out put digital signals in PCM-(stereo) or AC3– Bitstream (Dolby Digital). If your Hi-Fi system provides no sound for programs with Dolby Digital sound track, please refer to page 34 to change the out put format of the S/PDIF out put.

Connecting to USB storage

The USB port is on the front side of the HRS8560. It takes the receiver under circumstances some time to recognize the USB and get ready for further operation.
Please remove the USB storage only after all recording or playback processes are completed.

Following USB devices will be supported:

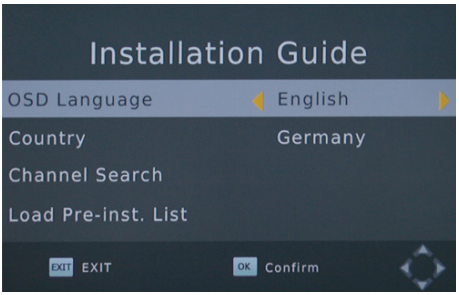
- USB storage
- Max. capacity 1024GB
- File system: FAT32, NTFS

Notes:

- There are a variety of USB storages on the markt. Not all of them conform the specification of USB storage. If your USB storage could not be read by HRS8560, please try another USB storage.
- If a USB device could not be read any more, please carry out a data storage medium analysis with your computer or format the storage again.
- USB storages requiring higher electric current than 500mA (0,5A) do not conform the specification of USB storage. These USB storages could possibly not work smoothly together with HRS8560.
- USB Storage up to 1024GB will be supported. USB storage of larger capacity could also be used. However the capatability of these USB storages with HRS8560 could not be guaranteed.
- Please always save all data on the USB before connection to the HRS8560.
- A sufficient writing– and reading speed of the USB storage is necessary for recording HD programs or use the Time-Shift function. In case of problems in recording or Time-Shift, please try a USB storage of higher writing– and reading speed.

Initial Installation

The XORO installation menu will be displayed by initial operation of the HRS8560. This menu contains four options:



1. OSD Language
2. Country
3. Channel search
4. Load the pre-inst.

Navigate with the arrow keys **CH+** and **CH–** to high light the option and make the selection with the **VOL–** and **VOL+** buttons.

OSD Language
Choose the menu language.

Country
Select the country where you use the HRS8560

Channel Search
Please select “Channel Search/Satellite Setting” to define further parameters for a scanning, if your satellite receiving system fulfill following criteria:

- System with rotatable antenna
- System with more than one antenna or LNB (DiSEqC)
- System with nonstandard components

Most of the customers could complete the installation by selecting “load the pre-inst.”.

Load the Pre-inst.
A program list of the satellite ASTRA 19.2° is saved in the factory firmware. German TV programs top this list.

In most cases, the installation is completed with loading the program list.

Select the OSD language and country and decide whether to load the pre installed program list.
Press **OK** to confirm.

- The first TV program will be shown on the screen after loading the pre programmed list. If there is no TV program to be seen, please check the cable connection, Antenna Set up and carry out the channel scanning.
- If you have chosen not to take the pre installed list, there appears a “Dish Setup” menu on the screen.

For the case there appears no “Installation Guide” menu after connection and power on, please read the page 35 to reset the device.

Dish Setup-preparation

Preparation:
You will have to be informed of following points to make a successful channel scanning.

- Towards which sagellite does your antenna orient?
- If you have more than one antenna or one antenna with more than one LNB, you will have to know which type of switch (Toneburst or DISEqC) is employed and to which port is each Antenna LNB connected.
- For a Unicable/SCR EN50494, you will have to know which IF-Channel is available and its corresponding Frequency.

Please ask the installer, if any of the parameter is not known. If you live in a rental house or apartment, please ask the renter.

Example for Germany:
The most satellite antennas orient satellite ASTRA 19.2° and have a “universal” or “Digital” LNB. We recommend the pre installed list in the case.
If you would not like to use the pre programmed list, the common setup for ASTRA 19.2° is as following:

Satellite:	019.2E Astra 1H.
LNB Type:	09750/10600
LNB voltage:	13/18V
22KHz:	AUTO
Tonebust:	None
DiSEqC 1.0/1.1:	None
Motor:	None

Dish Setup-Procedure

On the left side of the screen there is a list of satellites for which HRS8560 is pre programmed. Settings of the chosen satellite is displayed on the right side.

Process:

- Select the first satellite to be set up with CH+/CH-
- Press the OK button. The chosen satellite is marked with a hook, comfirming this satellite will be considered in the coming channel scan.
- Press the button **VOL+** to access to right side.
- Select the option with **CH+/-** and change the parameter with **VOL+/-**
- Press **Menu** after defining all parameters for this satellite to get back to the left side.
- If your satellite system can receive signals from a number of satellites, select a further satellite with **CH+/-.** Press OK and define the parameter on the right side.
- Repeat this procedure for all satellites availabe for your receiver.

Notes:

- After a correct setting, an approximate value of the signal qualty will be shown on the lower part of the menu.
- If a satellite is missing on the list, press the **RED** button. A dialogue winter appears, input the value for longitude, East/West and frequency, and choose “Blind Scan” in the coming channel scan. If you add a satellite to the list, there will be no display of the signal quality for this satellite, in spite of correct setting. Signal quality could only be displayed for satellites with pre installed transponder lists.
- Press **GOTO** to display the Transponder of the chosen satellite. Add new transponder with the **RED** button and mark the transponder for channel scan with **OK**.

Dish Setup-explanation of the parameters

LNB Typ: define the oscillator frequency for your LNB . Please take the correct value from the-manual of your LNB (standard:09750/10600)
If you have a Unicalbe/SCR EN50494, select LNB type Unicable (A oder B, A is generally the correct choice by a Unicable system for satellite reception). Choose a free channel (IF channel) and the corresponding frequency. Please refer to the manual of your Univable system. Ask your renter for the free channel, if the connection is provided in the rental house.

LNB Voltage: This parameter defines the voltage of the antenna, this voltage decides signal from horizontal or vertical polarized transponder will be received. The setting will only have to be changed in very rare cases. A false setting will result in missing program or no signal reception at all. (standard:13/18V)

22KHz: The receiver can switch the LNB with 22 KHz signals for the reception of another frequency band. The setting will only have to be changed in very rare cases. A false setting will result in missing program or no signal reception at all. (standard: Auto)

Toneburst: Tone burst switcher has two input ports, enabling the connection of 2 antennas or LNB to the receiver. If you have a Tone burst switcher, you will have to select one of the both connections (A or B) for the satellite chosen on the left side.

DiSEqC: DiSEqC switcher has up to 16 input ports enabling the connection of multiple antennas or LNB to the receiver. If you have a DiSEqC switcher, you will have to select one of connections for the satellite chosen on the left side. Please check which version (1.0, 1.1) could be supported in the manual of your switcher.

Motor: Rotatable Antennas require extended configurations. We recommend professional installation from a technician. Please set up according to your antenna. You can open further set up windows with the **RED** and the **GREEN** button.

After the set up has been done for all reachable satellites, please press the BLUE button to open the menu for channel scan.

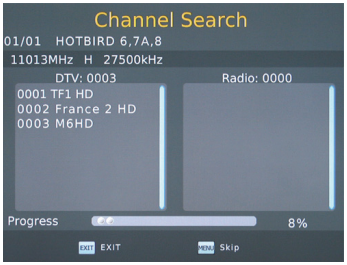
Channel Search

There appears a window showing “Channel Search” upon pressing the **BLUE** button on the menu of the Satellite Setting.
On this Window you can make three entries to affect the scan result.

Search Mode:

- Standard: The receiver scans channels according to a pre programmed list. This search process goes quickly but without being able to find programs on new transponders.
- Blind search: The receiver scans every possible frequency. It takes a little bit more time than standard scan. However it is possible to find programs from unknown transponders.
- Network: The receiver scans channels according to a pre programmed list. The frequency of a new transponder could be found out through analysis of the known transponders. The scan process is shorter than “blind scan”, but there might be possibly missing programs.

Please employ “Blind Scan”. It takes a little bit longer, but will result in a complete program list.
If you have added a new satellite on the menu of Satellite Setting, please employ “Blind scan”, for there is no transponder list available for the newly added satellite. There is no “Blind scan” option in case of UniCable system.



Encrypted:

- All programs: both free and encrypted programs (Pay TV) will be added to the program list during the channel scan.
- FTA (free): The channel scan saves only free programs.

The XORO HRS8560 can not decrypt Pay-TV programs. Please select “FTA” (free programs), so that you will get a shorter program list and save some time in sorting the programs.

Service Type:

- All: The channel scan saves both TV and Radio programs.
- DTV: The channel scan saves only TV programs.
- Radio: The channel scan saves only Radio program.

Press the OK button to start the Channel scan.

After the channel scan is completed, live picture of the first found channel will be shown on the screen.

Important keys and their functions

Switch Channel

To switch program please press the CH+/CH- buttons or input the number of the wished program with the numerical buttons 0-9 on the remote control.

Channel List

Access the Channel List by pressing **OK**

▲/▼	Next/previous program
OK	Activating the chosen program
PAGE+/-	Next/previous page
TV/Radio	switch between Radio– and TV channel list
RED Button	search a channel after the name
GOTO	Choose a satellite/show all programs
EXIT	Exit the program list

Favourite

If you have defined favourite groups, you can access this list by pressing the **FAV** button. The operation on the favourite list is as following:

FAV	display favourite list
◄/►	Next/previous favourite list
▲/▼	Next/previous program
OK	Starting the chosen TV program
EXIT	Exit favourites list

Subtitles

Press **SUB-T** to enable subtitles. Select a language for the subtitle with ▲/▼ and confirm it with **OK**. If the program contains no subtitle, there will be only one option: OUT.
To quit the “Subtitle language”, press EXIT.

English

Important keys and their functions

Audio settings of TV programs

Access the audio settings by pressing **AUDIO.**
Select a language and a audio track with ▲/▼. To confirm, press **OK.**

Press EXIT to exit this menu.

Teletext

The teletext is activated via the **TTX** button. You may use the numerical buttons 0-9 on the remote control for a direct entry of the wished page.
To quit the teletext page press EXIT.

P100 100 ARDtext Mi 20.01.10 12:27:38
ARDText
Merkel verteidigt Schuldenrekord 120
Haiti:Chaos in den Krankenhausern 123
Zugunglück in Niedersachsen 131
USA: Amokläufer tötet 8 Menschen. 156
Biathlon: Heute 15 km Frauen..... 218
Tennis: Kohlschreiber gegen Nadal 225
Sixdays: Sieg für Risi/Marvulli.. 242
12.15 ARD-Buffet 315
Moderation: Evelin König
13.00 ARD-Mittagsmagazin 312
Inhalt (A-Z).. 101 Programm..... 300
Tagesschau.... 112 Boulevard..... 500
Aus aller Welt 155 Wissen..... 510
Sport..... 200/600 Wirtschaft 700/710
101 102 103 104

Mute

Press the **MUTE** button to switch off the tone. Press the **MUTE** button once more, the tone will be turned on again.

Change Volume

To increase or decrease the volume press the **◄/►(VOL+/VOL-)** button.

If you output Dolby Digital or other surround sound formats as Bitstream through HDMI, the volume is not regulated by the receiver. Volume of the SPDIF (Coaxial) out put could not be changed with the VOL-/VOL+ buttons.

Information

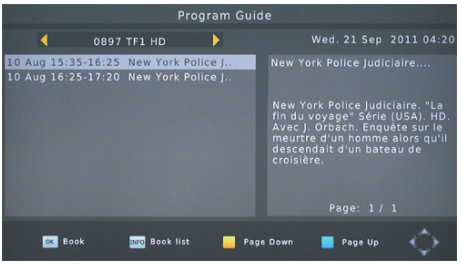
You will have the access to various of information by pressing the **i** button once or a multiple of times.

Aspect Ratio

During a live program you may change the Aspect ratio without opening the main menu. Press the ASPECT button and the Aspect Ratio will be changed with each pressing. (See also Page 32)

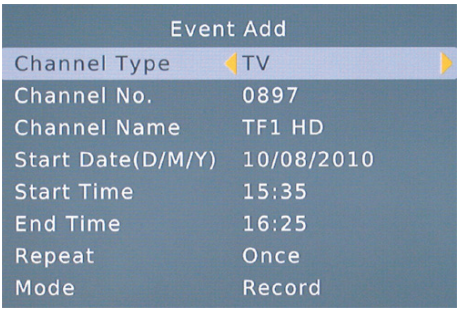
Important keys and their functions

EPG
Press the EPG button to display the program guide.


Program Guide
0897 TF1 HD
Wed. 21 Sep 2011 04:20
10 Aug 15:35-16:25 New York Police J..
10 Aug 16:25-17:20 New York Police J..
New York Police Judiciaire....
New York Police Judiciaire. "La fin du voyage" Série (USA). HD. Avec J. Orbach. Enquête sur le meurtre d'un homme alors qu'il descendait d'un bateau de croisière.
Page: 1 / 1
OK Book
INFO Book list
Page Down
Page Up

OK	the marked program will be taken over in the Timer programming
INFO	display the Timer list
▲/▼	select a TV program
◄/►	switch program
EXIT	quit EPG

Timer Programming on EPG



Select the program to be recorded with the ▲/▼ buttons and press OK. The program number, time of begin and end will be taken over in the window "Timer New".

Further settings on this window are **Repeat** and **Mode**. The option Repeat defines whether the program will be recorded once or regularly. The option Mode will have to be set for recording as RECORD. Press OK to save the setting. The programmed broadcast appears now on the timer list.
Press EXIT to close a dialogue window. Press EXIT repeatedly to quit EPG window.

Notes:

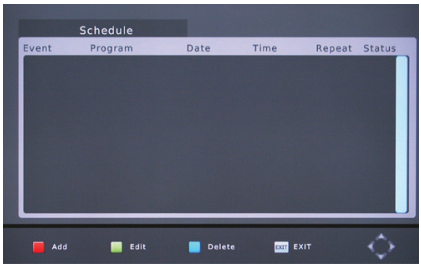
- Please do not forget to connect a USB storage (see page 15)
- Option Mode: Select RECORD to record a program on the USB storage. Select VIEW to have the receiver switched on at a given time without recording the program on USB.

English

Immediate recording and Timer programming, Recording list

Recording

If you want to record the current TV program simply and quickly, first connect a USB memory to the USB port and then press the ● button. Press the ● button once more to define the concluding time of the recording. You can stop the recording by pressing the ■ button. Confirm the safety query with the **OK** button.

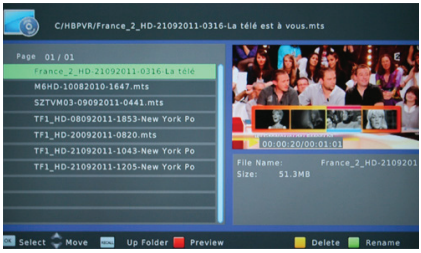


Record programming

You can programme a recording during the live broadcast. Press the **BLUE** button to display the Timer list.
Press the **RED** button to display the setting window for the new Timer. Please refer to the setting details on Page 23.

Recording List

Press the **PVR** button to show all recorded broadcasts.



▲/▼	Next/previous recorded file
OK	playback the chosen recorded file in preview window
RED	Switch full screen/preview
GREEN	Rename the recorded file
YELLOW	Delete the recorded file

Playback

►►	fast forward
◄◄	fast rewind
II	Pause, press again to resume playback
EXIT/STOP	stop the playback, switch to the recording list

Rename recorded files

Choose a recorded file from the list to be renamed and press the **GREEN** button. An OSD keyboard appears on the screen. Choose letters for the new name with the navigation buttons and confirm each letter with the OK button.
After entry of the complete name, navigate to the **OK** field and press the **OK** button.

Delete recorded files

Choose a recorded file from the list to be deleted and and press **YELLOW**. Now the recording is marked with a checkmark and press the **OK** button. Confirm the safety query with the **OK** button.

USB Media Player

The USB media player plays back movie, photos, and music files. There are two ways of accessing the media player.

- Open the main menu with the MENU button. Press ◄/► repeatedly until USB menu is shown on the screen. Press ▲/▼ to choose Multimedia and confirm with OK.
- Press the STOP button during live broadcast.

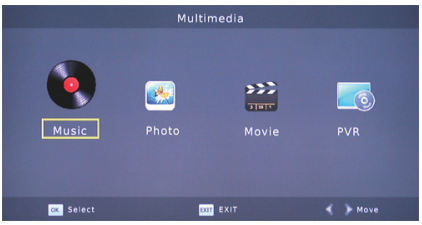
The media play is started. You have these four options:

- Music
- Photo
- Movie
- PVR

Supported file formats
Pictures (JPEG, BMP), Music (MP3, WAV) or video files (MPEG-1, MPEG-2, MPEG-4) and more.

Supported Media
The USB port supports a set of different sizes of flash drives. Use a USB flash drive with a minimum of 8 GB for recording. Smaller media's are maybe too slow for recording or Time shift.

Note
Due to the legal requirements of CE-conformity, the customer is asked to only connect USB-Sticks to the USB port.



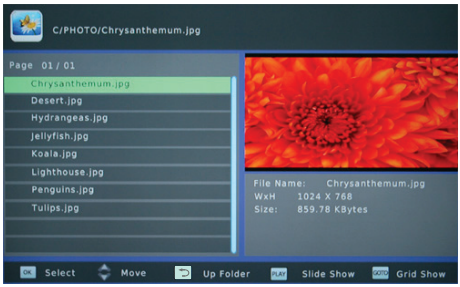
If you want to play music, videos or pictures von USB media connect the USB media, press **MENU** and choose *USB* with ◄/►. Enter the USB menu with **OK**.

Now choose *Multimedia* with ▲/▼ and enter with **OK**.

USB Media Player

Photos

After initialising the USB media the directory structure is shown. Choose the directory with ▲/▼ and enter with **OK**.
If there are pictures in this directory, they are listed in the file browser and the preview of the first picture is shown on the right.



▲/▼	Next/Previous folder or file
OK	display a photo or open a folder
Play (►)	Start slide show (all pictures in the directory)
⮌	go to higher directory
GOTO	Show pictures in small previews
EXIT	back to multimedia menu

Preview Window

▲/▼	Next/Previous picture
◄/►	Next/Previous picture
OK	Start Slide show
EXIT	quit the preview window

Display Photos
Start the slide show with **PLAY** or **OK**. The slide show will proceed according to the settings in the USB menu.

>>|	Next picture
|<<	Previous picture
RED	Zoom picture
Green	Rotate picture 90° in counter clock wise direction
YELLOW	Rotate picture 90° in clockwise direction
i	Show information of the picture like file name, resolution and file size
⮌	Exit photo display
EXIT	Exit photo display

Music playback during the photo display

It is possible to play music while browsing in the pictures. Choose a music file before you go to the picture browser.

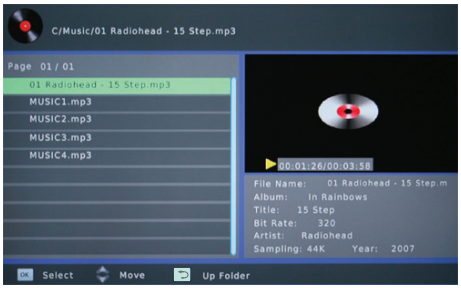
Supported formats
The supported picture formats are: JPEG, BMP.

Notes: Displaying photos in the maximal resolution might take much time.

Music

After initialising the USB media the directory structure is shown. Choose the directory with ▲/▼ and enter with **OK**.

If there are music files in this directory, they are listed in the file browser.



OK / PLAY	Playback a music file
STOP	Stop the playback
►►|	Next track
|◄◄	Previous track
||	Pause
▲/▼	choose a folder or a file
RPT	Repeating single track or directory
EXIT	back to multimedia menu

Supported formats

Format:	MP3
Sampling Frequenz:	32 - 48 kHz (MP3)
Bitrate:	32 bis 320 kb/s (MP3)

Movie

Notes:

- The maximal resolution of the movie file is 1920 x 1080 pixel.
- The file name should not contain more than 15 letters.
- If a character is not recognized correctly (for example special characters), there appears at the place of this character an underline "_".
- Following video containers are supported: AVI, MKV, MP4, MPG, VOB, MOV etc.
  Various codics are supported. They will have to be created according to the established stan dards. For MPEG-2 applies ISO/IEC13818 and for MPEG-4 applies ISO/IEC 14496. Other wise there might be error at the playback.

Please take note of the supported formats on Page 29.

There exist a variety of video codecs, audio codecs, video containers and PC programs generating these files. it is possible that some video files are not supported.

English

Movies

After initialising the USB media, the directory structure is shown. Choose the directory with ▲/▼ and enter with **OK**.

▲/▼	Next/Previous folder/file
OK	Playback a file / Open a directory
RED	Full screen display
⮌	to a higher directory
EXIT	back to multimedia menu

If you have selected a movie and started the playback with OK, the movie is shown in the preview window on the right. You can switch to full screen with **RED**. You can alternatively press **PLAY** to playback the movie directly in full screen .

OK	Playback in preview window
PLAY	Playback in full screen
RED	Switch preview / full screen
i	Access information such as play back time/duration, file name, file size, reso lution, picture frequency
AUDIO	Switch audio track
SUB-T	1x display subtitle alternatives, 2x change subtitle setting
MENU	back to file browser (the movie continues in preview window)
⮌	back to file browser (the movie continues in preview window)
GOTO	Jump to a certain (self defined) time
◄◄ / ►►	Fast forward/backward
|◄◄	Previous movie
►►|	Next movie
||	Pause
STOP	Stop the play back
RPT	Repeating modes (Single track or all files in a directory)

Resume play back
By some file formats the receiver can save the position where the previous play back is stopped. If the receiver has saved the position, there will appear by restart on the upper edge of the screen the alternatives: Continue/[EXIT]: break

- Continue: the play back starts from the saved position
- [EXIT]:break: the play back starts from the very beginning of the file

You can choose one of the options with the ▲/▼ buttons. Confirm the selection with **OK**.

Supported Formats

Extention	Container	Video Codec	Maximal Resolution	Audio Codec	Profile
mpg, mpeg	MPG, MPEG	Mpeg 1,2	1920x 1080/30P	MP2,MP3, PCM	Main
TS	MPEG2-TS, H264-TS	MPEG2, H.264	1920x 1080/30P	MP2,MP3	Main
mp4	AVI, MP4	MPEG4 Xvid 1.00, Xvid 1.01, Xvid1.02, Xvid 1.03, Xvid 1.10-beta 1/2, H.264	1920x1080/30P	MP3	H264: Main Profile and High Profile @Level 4.0 MPEG4: Simple Profile and Advanced Simple Profile @Level 5
mkv	MKV	H.264, MPEG 1,2,4	1920x1080/30P	MP2,MP3	H264: Main Profile and High Profile @ Level 4.0 MPEG4: Simple Profile and Advanced Simple Profile @Level 5
avi	AVI (1.0,2.0), DMF0,1,2	MPEG2, MPEG4 Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2 H.264	1920x1080/30P	MP2,MP3	MPEG2: Main Profile MPEG4: Simple Profile and Advanced Simple Profile @Level 5

Notes: GMC will not be supported. Maximal picture frequency: 20 Mbit/sec. Aspect Ratio: 4/3, 16/9.
Specifications subject to mistakes and changes.

English

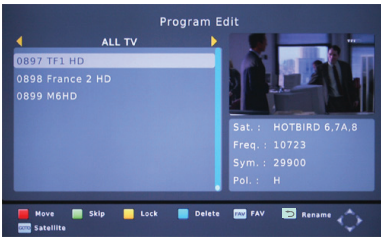
Main Menu

Press **MENU** for the main menu. The submenu are:

- Program
- Picture
- Channel Search
- Time
- Option
- System
- USB

Program

Notes:
The standard password is 000000.
Program Edit
You can sort, edit, delete, rename the program and build favourite groups here.



Move the program with ▲/▼

- Select a program with ▲/▼ to be moved
- Press the **RED** button to mark the program
- Choose a position for the marked program with ▲/▼
- Press OK to move the program to the chosen place

Notes: You can mark multiple programs with the **RED** button.

Move the program through input of new program number

- Select a program with ▲/▼ to be moved .
- Press the **RED** button.
- Input the new position with the numerical button 0-9.
- Press ok to move the program to the given place.

Delete

- Choose a program to be deleted with ▲/▼ .
- Press **BLUE**. A security query appears.
- Press OK to confirm deleting the program.

Program

Lock channels
The receiver will ask for the password before display a locked program.

- Select a program with ▲/▼ to be locked.
- Press the **YELLOW** button. The chosen channel is highlighted with a lock symbol.
- Press the **YELLOW** button again to unlock the channel.

Skip Channels

Programs maked with the Skip symbol will be skipped in channel switch with the CH+/- buttons. They could only be accessed through entry of program number with the numerical buttons 0-9.

- Select a program with ▲/▼ to be “skipped”.
- Press **GREEN**. The chosen channel is marked with “SKIP”.
- Press **GREEN** again to withdraw.

Favourites
The receiver has four pre defined favourite groups (movie, news, sport, music). You can categorize a channel as any favourite group and a channel may belong to multiple groups.

- Select a program with ▲/▼ to be categorized
- Press **FAV** to access the favourite menu.
- Select a favourite group with ▲/▼
- Press OK. The channel is marked with a “Star” symbol.
- You can choose mulitple favourite groups here. Power off at this time leaves the configuration of favourite groups unsaved.
- Press EXIT once to close the Favourite window

Rename Channels

Choose a channel to be renamed with ▲/▼ and press **i**. There appears a key board. Input letters of the new name with ◄/►▲/▼ confirm each letter with the **OK** button. After completion of the entry navigate to the **OK** field and confirm with the **OK** button.

Notes:
- To switch between TV and Radio, press the **TV/Radio** button.
- Press GOTO to list programs of all satellites or one certain satellite.
- Quit the Program edit menu with **EXIT**. The configuration will be saved.

English

Programm

Sort Channels
This option sorts the channels on the channel list according to criteria as encryption, Frequency, etc.

Picture

The previous sort is replaced.
Aspect Ratio
This setting define the picture format of your TV and how the content with different Aspect Ratio be adapted for your TV.

- Auto (for 16/9 TV. 4:3 or wide screen content will be full screen displayed with the picture distorted. Further adaption will be done by the TV.)
- 4:3 Pan Scan (for 4:3 TV. Content with different Aspect Ratio will be possibly full-screen displayed, without distortion but with information lost.)
- 4:3 Letterbox (for 4:3 TV. Content with different Aspect Ratio will be displayed without distortion but with “black bar”.)
- 16:9 Pillar box (for 16/9 TV, Content with different Aspect Ratio will be displayed without distortion but with “black bar”.)
- 16:9 Pan scan (for 16/9 TV. 16/9 Broadcast will be full-screen displayed without distortion. 4/3 Broadcast will be displayed without distortion but with the picture enlarged. This setting is especially suitable for 4/3 Letter box programs to reduce the “black bar”.)

You can switch among these alternatives with the **ASPEC** button during live program.

Resolution
Define the HDMI output resolution

- 576i (PAL) / 480i (NTSC)
- 576p (PAL) / 480p (NTSC)
- 720p
- 1080i
- 1080p

Note:
Please note the manual of your TV and the correction resolution.

Colour system/V frequency
Define the colour system for the SCART output (PAL or NTSC) and frame rate for the HDMI output (50 Hz or 60 Hz).

Signal type (SCART)
You can define the signal type at the SCART port. Generally RGB offers the best picture quality. Please note the manual of your TV.

Channel Search

Dish Setup
See page 17

Save/load channel list

With this option you can save the channel list on a USB (export) or load the channel list from the USB storage (import).

Import: The receiver lists all available data. Choose the file to be installed and confirm with OK. The message “load Database successfully” shows that the program list has been installed correctly.

Export: Save the current program list on the USB storage. The file contains following name: HB_DATABASE_*X*_*Y*.DBM. „X“ suggests the month. „Y“ suggests the date.

Time

The receiver sets the time automatically, as soon as a satellite program is received. The Time Zone will have to be set correctly so that the receiver could calculate the local time properly.

Time Zone setting
Auto The receiver set the Time Zone automatically
Manual You can define the Time Zone.

Time Zone
You can define the Time Zone as long as the Time Offset is given as “Manual”. For Germany it is MGZ+1, and it is MGZ+2 during the European Summer Time.

EuP Auto-Stand By
To save energy according the the EU Regulation (EuP), the receiver switches off after a certain time without user interaction (such as pressing the buttons etc.).

Option

OSD / Subtitle Language
Define the OSD / subtitle language.

Note: Many broadcasts do not contain subtitle information.

Audio Language
Define the language to be spoken.

Digital Audio

You can define here the format of audio signals at SPDIF (COAX) and /or HDMI output.

PCM: Digital audio output (HDMI and SPDIF COAX)
RAW: If a broadcast or a vidoo file contains a Dolby Digital sound track, the tone format will be outputted through SPDIF(COAX) and HDMI. If you get no tone, please choose “PCM“ .

Attention: The receiver could only decode Dolby Digital surround sound and out put it as analogue or PCM stereo. Other surround sound could be outputted under circumstances as Bitsteam (RAW) though SPDIF or HDMI. In this case the analogue and PCM stereo tone are not available.

Please use the **AUDIO** button to choose the Dolby Digital Sound track of a program, if it is available.
If you output the Dolby Digital or other surround sound formats as Bitstream (RAW) through HDMI, the receiver could not regulate the volume. The volume of the SPDIF (Coaxial) output could not be changed with the **VOL-/VOL+** buttons.

System

Parental Guidance
You can define here whether a program will only be displayed after a correct entry of the password.
Note: Information on the age limit of a DVB program is not broadcasted in Germany.

Set Password
You can change your password here. At first you have to confirm the old password (standard 0 0 0 0 0 0). After confirming the old password type in the new password and repeat it. If all data was correct the new password is active.

Note: For the case the password is forgotten, you can use the super password to set a new password.
Super Password: **8 8 8 8 8 8**

Restore Factory Default
You can cancel all settings and changes by restoring the factory default. Choose this option and input the password.
Note: All settings will be cancelled. You will have to go through the channel scan once more.

Information
Access information on software and hardware.

Recall List
You can change the function of the ↩ button. If “off” is given, the receiver displays the last program upon pressing the ↩ button. IF it is set “on”, a list of programs seen at last will be displayed upon pressing ↩.

Software update
USB upgrade

If an update is necessary, the update software and the update instruction are to be found on www.xoro.de. Please install only the suitable XORO firmware. Installation of a false firmware may make the receiver unusable and void your claim on warranty.

English

System

USB

USB Media Player
Opens the multimedia Player (see page 25).

Photo Configure
Configure the playback and Slideshow of picture files
Slide Time
Define the duration for every picture in the slide mode.
Aspect Ratio

- Keep (display without distortion)
- Discard (full screen display with distortion)

USB

Subtitle Set up

This setting concerns only the display of an external subtitle.
The options are:

Subtitle Specific
Define the size of subtitle in media player.

Subtitle Background
Define the background of the subtitle in media player.

Subtitle Letters
Define the colour of subtitle letters

Formats
Supported formats of the external subtitles are as following:

- Micro DVD (SUB)
- Subrip (SRT)
- Sami (SMI)

Please note the notation of subtitles. Name of the subtitle and the movie will have to be the same.
For example:

- Film.avi
- Film.srt

It is also possible to use 2 languages:

- Movie.avi,
- Movie.ger.srt
- Movie.eng.srt

If a letter could not be displayed correctly, please save the subtitle file in format “Unicode” once more.

PVR Configure

Recording device
This menu shows the information (size and file system) on the USB. If the USB storage has multiple partition, you can choose a partition with ◄/►. Press OK to confirm.
The TMS storage sets the maximal capacity to be used for Time Shift Function.

USB

Format
Choose a USB storage or partition to be formatted at “Format”.
Choose at “File System” the wished file system.
Return to Format and confirm with OK.

Attention:
All files and directories will be lost during the formatting process. Please do not format a storage with important information.

Notes:
The file system FAT 32 is fast compatible with all computer and home entertainment products. However the maximal file size is limited to be 4GB. Data storage medium larger than 32 GB is used inefficiently by FAT 32.
NTFS might not be recognized by some operating systems and home entertainment products. There is no limit of 4GB on file size.

Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.
Technical Support of Xoro/MAS:

- Tel.: +49 4161 800 24 24
- Fax: +49 4161 800 24 61
- Internet: www.xoro.de/service

Symptom	Correction
No DVB-S reception / serious distortion by mosaics or artefacts/ freeze pictures	• No DVB-S reception in your region. • Realign the dish. Please pay attention to the direction of the satellite. • Please use a bigger dish. • Retry the Auto Scan.
No power	• Plug the power cord into the outlet tightly and turn on the power.
Can not scan programs	• Adjust the dish • Refer settings for searching
No picture / no coloured pictures	• Control the connection to the TV set. • Control the video output mode in the setup. • TV channel or program is scrambled
Remote control does not work	• Change the batteries. • Operate within normal range (max. 5 meters, 30 °) • The sensor is pointed to by bright light.
No sound	• Cancel Mute. Press **MUTE** button • Increase volume. Press **VOL+** button • Pay attention to connection to TV set or amplifier.
Audio / Subtitle without function or can no choose	• Change audio track (press **AUDIO** button) • Change subtitle track (press **SUBTITLE** button) • Other audio track is not supported • Subtitles are not supported by broadcaster
No Recording	• No USB memory are connected. • No free space on the storage.
Recording has jerkings or other mal functions	• The connected storage is too slow. • Please control the reception quality of the dish and align them for getting better quality.

Specifications

English

General	
Voltage	220-240V, 50/60Hz
Consumption	<20W*(Normal) / < 0.5W (Stand By)
Size	168 x 40 x118 mm
Receiver	
Frequency	950 - 2150MHz
Impedance	75Ohm
Modulation	QPSK 8PSK
Symbol Rate	2 - 45Mbps
Video Decoder	
Standards	MPEG4 AVC/H.264 HP@L4/MPEG 2 MP@HL
Aspect Ratio	4:3/16:9
Resolutoin	up to 1920x1080p
Audio Decoder	
Standards	ISO/IEC 11172 Layer I & II
Sampling Frequenz	32, 44.1 & 48kHz
Connections	
Video	HDMI, SCART (CVBS/RGB)
Audio	S/PDIF (Coaxial)
Antenna	F port IEC 169-2
Data	USB 2.0 High Speed
Media Player	
Storage	USB Storage with FAT32/NTFS
Container	AVI, MKV, TS, MPG, MP4
Video Codecs (1080p)	MPEG1, MPEG2, MPEG4 (ASP/H264)
Audio Codecs	MPEG, MP3
Conditions of Operation	
Temperature of Operation	0 - 40° C
Humidity	5 - 90% (non condensing)

* Depending on electrical consumption of the USB connected.

Note:
Weight and dimensions are not absolutely exact values. Specifications are subject to change

Warranty

In case the products delivered are not free from defects in material or workmanship, MAS Elektronik AG has the right to either repair or replace the defective product at its choice. MAS Elektronik AG manufactures and repairs goods using components which are new or equivalent to new in accordance with industry standards and practice. The warranty for wearing parts (e.g. rechargeable batteries) is limited to 6 months.

In case the device is equipped with internal data storage (e.g. hard disc drive, Flash drive), the customer is responsible to backup his data before sending the device. MAS Elektronik AG is not liable for any data loss on returned devices. MAS Elektronik AG reserves the right to reset returned devices to factory defaults. Please note your personal settings for this reason.

MAS Elektronik AG is not liable for any accessories not belonging to original package content such as DVDs, hard disc drives, Flash storage devices, batteries, etc.

This limited warranty covers the warranty requirements set by authorities in your country. This limited warranty only is valid in the country the product was purchased.

This limited warranty does not cover finishes, accessories or batteries, nor does it cover damage resulting from accident, misuse, abuse, dirt, water, battery leakage, tampering, servicing performed or attempted by unauthorized service agencies. This limited warranty does not cover damages resulting from firmware upgrades. Only in case of firmware upgrades needed to add functions promised at time of purchase, such damages are covered by this limited warranty. For a correct and frictionless completion of warranty or repairs you need a RMA No. You may obtain a RMA on the internet at www.xoro.de or by telephone.
Please send the device in its original packing material, all standard accessories and a copy of the invoice, a description of defect and the RMA No. to following address. Please note the RMA number clear and in large numbers on the outer package.

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FREE TO CHOOSE INNOVATIONS

XORO®

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